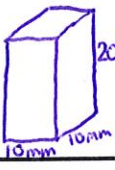

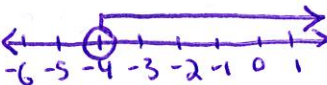



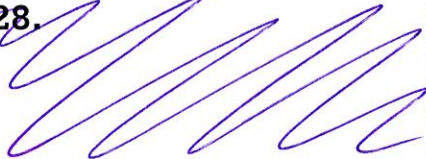


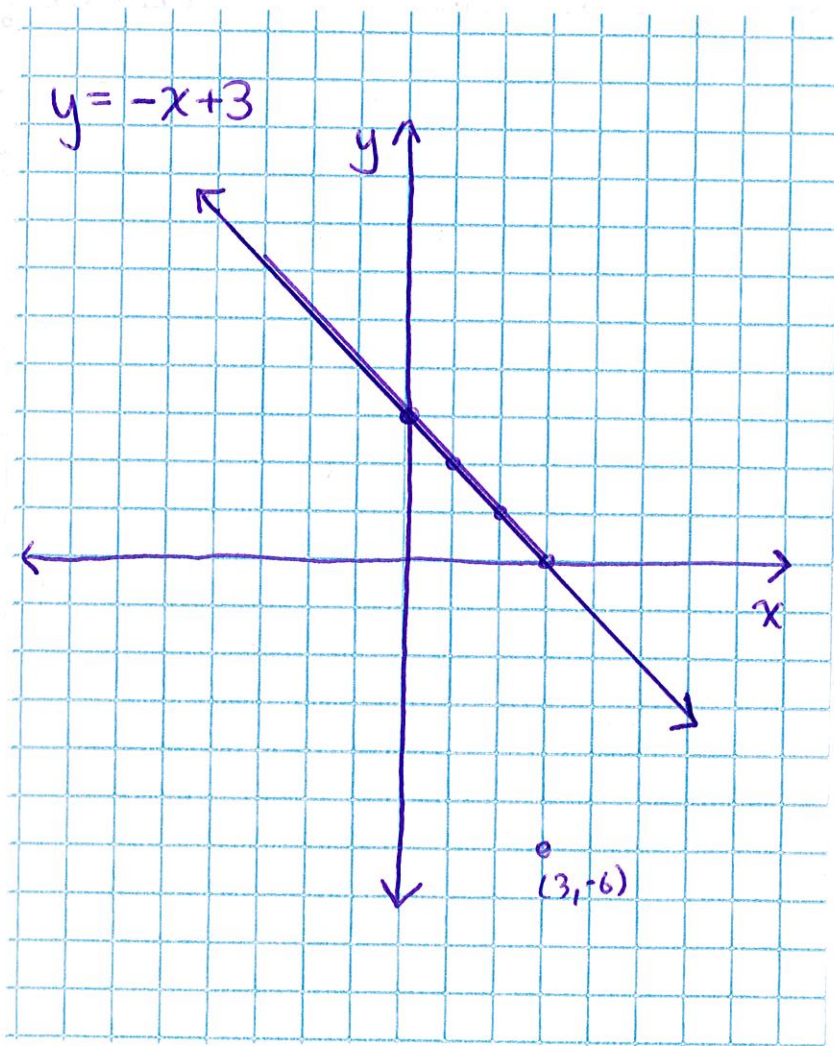


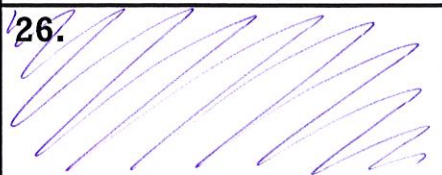
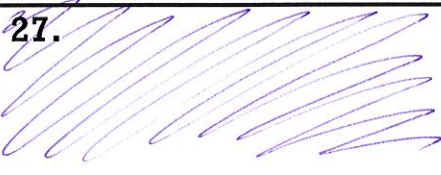



Homework Answer Key

Course 3 Lesson # 65

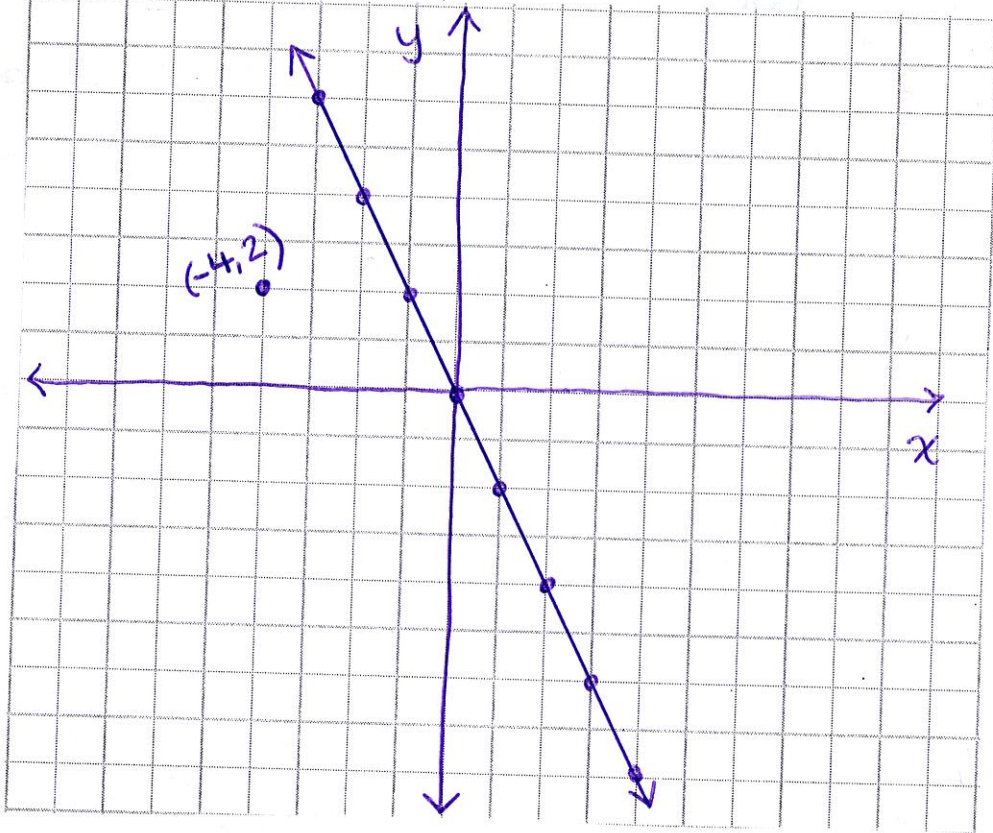
1. 60 cans of chili	2. 12 people	3. 50 minutes
4. mean: 6.99g median: 6.98g mode: 6.98g	5. $m\angle x = 60^\circ$ ★	6. a.  20mm b. 1000mm^2 c. The prism because the pyramid can fit inside the prism with space left over. 
7. (graph on back) (3, -6) is not a solution.	8. a. {land 2, land 3, 2 and 3} b. $\frac{2}{3}$ ★	9. 25 ft.
10. ★ 28.56 cm	11. ★ $\frac{90\text{m}}{\text{min}} \left(\frac{1\text{min}}{60\text{sec.}} \right) = 1.5\text{m/sec}$	12. $\left(\frac{1.2\text{ft}}{\text{sec}} \right) \left(\frac{12\text{in}}{1\text{ft}} \right) = 14.4\text{in/sec.}$
13. a. $4(y-8)$ b. $2x(x-8)$	14. a. $\frac{1}{30}, 0.0\bar{3}$ b. Fraction	15. 0.4375 43.75% or $43\frac{3}{4}\%$
16. 60%	17. 0	18. $\frac{x^2}{z^2}$
19. $\frac{5}{12}$	20. 12	21. ★ $x = 14$
22. ★ $x = \frac{3}{7}$	23. ★ $x > -4$ 	24. ★ $x \leq -1$ 
25. No, the relationship is not proportional. For longer distances (highway driving) you get better fuel efficiency.	26. 	27. 
28. 	29. 	30. 

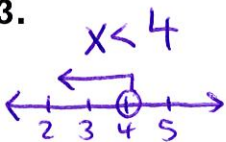


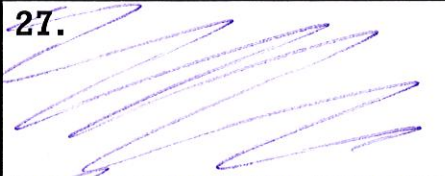


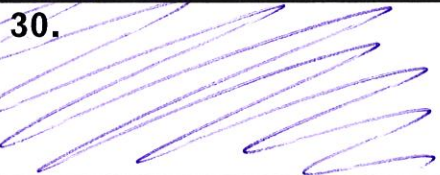
#7



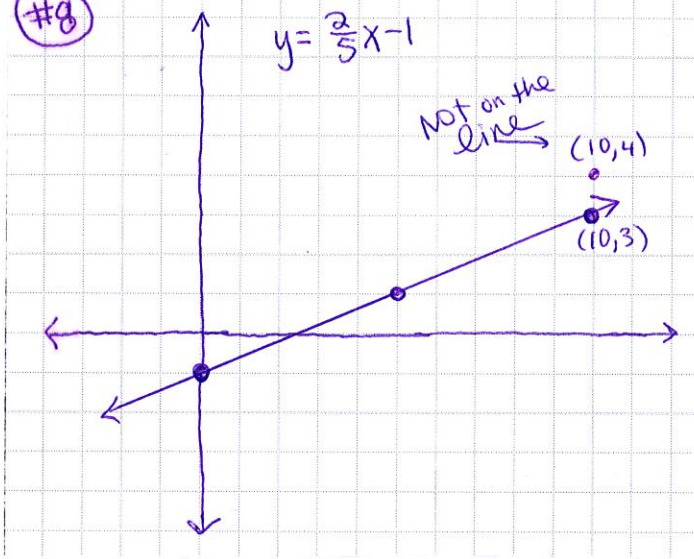
1. 250 teachers	2. 50 min	3. 5 quarters
4. mean: 9.62 median: 9.6 mode: 9.5 range: 0.3	5. $\$400$	6. a. $x=4$ $y=10$ b. No, the side lengths do not satisfy the Pythagorean Theorem
7. $y = \frac{2}{3}x$	8. $y = -3x - 8$	9. NO (see graph on back)
10. True	11. 120 meters	12. $\$7.80$
13. a. $0.\overline{5}$ b. $55\frac{5}{9}\%$ or $55.\overline{5}\%$ c. $0.55, \frac{5}{9}, 0.56$	14. a. 30 units b. 30 square units	15. a. $5(x^2 + x + 2)$ b. $-3x - 9$
16. a. $\frac{5}{26}$ b. 51 cards; 9 vowels c. $\frac{9}{51}$	17. $\frac{400\text{m}}{\text{min}} \cdot \frac{1\text{mi}}{1600\text{m}} = \frac{1\text{mi}}{4\text{min}}$	18. a. 3 b. $\frac{m}{r}$
19. 0	20. $x = 75^\circ$ $z = 105^\circ$ $y = 75^\circ$	21. a. $\{HA, HB, HC, TAB, TC\}$ b. $\frac{1}{3}$
22. $x = 14$	23. $x = 7$	24. $x = 60$
25. Proportion; 24 karats, $K = \frac{1}{24} \approx 0.0417$; 14 karat gold is $\frac{14}{24}$ or 58.3% pure	26. 	27. 
28. 	29. 	30. 

#9

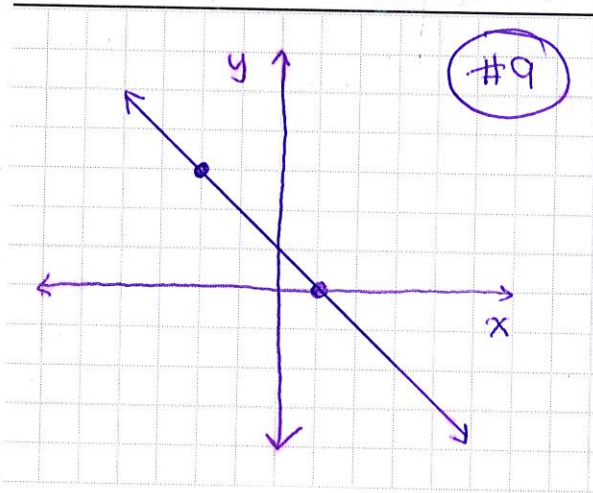


1. 18 silver fish	2. 60 teachers	3. \$4.50
★ 4. 1800 fans had left	5. 25 feet	6. \$153
7. prime number	8. NO (see graph on back)	★ 9. $y = -x + 1$ (see graph on back)
10. 12 in^2	★ 11. a. $77\frac{7}{8}\%$ b. $0.\overline{7}$ c. $\frac{6}{8}, \frac{7}{9}, \frac{7}{8}$	12. Le and Lh
13. a. $3(x^2 + x + 3)$ b. $x^2 - 5x$	★ 14. $\frac{18 \text{ min} (60 \text{ min})}{\text{min} (1 \text{ hr})} = 1080$ inch/hr.	★ 15. $\frac{10 \text{ mi}}{\text{hr.}} \left(\frac{675 \text{ rev.}}{1 \text{ mi}} \right) = 6,750 \text{ rev./hr.}$
16. $\frac{2c^2}{a}$	17. 42	★ 18. $x = 2$
★ 19. $x = 2$	20. $x = 30$	21. $x = 3$
22. $x = 3$	23. $x < 4$ 	24. $x \geq 2$ 
25. D. (8, -1)	26. 	27. 
28. 	29. 	30. 

#8








#9




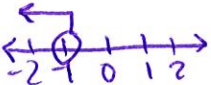
Homework Answer Key

Course 3 Lesson # 69 ~~*~~ and Practice set

1.	2.	* 3. 900 participants last year
* 4. NO	5.	* 6. Dilation (by scale factor 2)
7.	8.	9.
10. Practice Set →	11. <u>a</u> $p = 3s$ Constant of proportionality is 3.	12.
13.	14. <u>b</u> Not direct variation. Graph is a straight line but does not include the origin (0,0)	15.
16.	17. <u>c</u> constant of proportionality: 8.3 249 pounds $p = 8.3g$	18.
19.	20.	21.
22.	23.	24.
* 25. Proportional. Ratio of altitude to time is constant at 200 ft/min $(5)(200) = 1000\text{ft}$ ← at 5 min.	26. 	27. 
28. 	29. 	30. 

Homework Answer Key

Course 3 Lesson # 70 *★* and practice set

1.	2.	<i>★</i> 3. \$50
<i>★</i> 4. NO; the ratio of L to W is not constant.	5.	6.
<i>★</i> 7. a. 63 ft^2 b. 30 ft.	<i>★</i> 8. a. $0.\overline{16}$ b. $16\frac{2}{3}\%$ or $16\overline{6}\%$	<i>★</i> 9. $x \geq 2$ 
<i>★</i> 10. $x < -1$ 	11.	12.
13.	14.	<i>★</i> 15. $x = 1$
<i>★</i> 16. $x = 1$	17.	18.
19.	20.	21.
22.	<i>★</i> 23. <i>a</i> 5cm	24.
25.	<i>★</i> 26. <i>b</i> 600 words	27.
28.	<i>★</i> 29. <i>c</i> 25 min	30.

Practice Set: